# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/30/2019 04/30/2019	Zach Jojola

LM Start		Rating **	Α	Issue No.		3	
LM End		Issue Type +	Ma	Location *	Location * N/A		
Category	Earthen L	evee		GPS La	atitud	de/Longitude	
Calegory				Start		End	
Item	Operations & Maintenance				0		0
пеш	Manuals				0		0
DWR ID	DWR_ST0	008_01_s _ 201	3_3				
		Comn	nent Cod	le			
		Inspect	or Comm	nent			
The Sacra	mento Mai	intenance Yar	d has th	e O&M mar	nual	S.	

No Photos

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ma	Location *	N/A		
Category Earthen Levee			GPS La	atitud	le/Longitude		
Category	Category					End	
Item	Emergency Supplies &				0		0
item	Equipmer	nt			0		0
DWR ID	DWR_ST0	008_01_f _ 2017	7_4				
		Comn	nent Cod	de			

No Photos

Inspector Comment
The Sacramento Maintenance Yard maintains a stockpile of flood response material.

LM Start		Rating **	Α	Issue No.		5	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Flood Pre	paredness &	Training		0		0
пеш					٥		0
DWR ID	DWR_ST0	008_01_s _ 201	3_5				
		Comn	nent Cod	le			
	Inspector Comment						
The Sacra	mento Yar	d has a writte	n respon	ise plan and	d reg	gular flood	

fight training.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/30/2019 04/30/2019	Zach Jojola

LM Start	0.50	Rating **	М	Issue No.	10	
LM End	0.50	Issue Type +	Ма	Location *	LS	
Category	Earthen Levee				ituc	le/Longitude
Calegory			Start		End	
Item	Encroachments			38.60457	4 °	38.604574 °
пеш				-121.56848	0°	-121.568480 °
DWR ID	DWR_ST0	008_01_s _ 201	9_10			
		Comn	nent Cod	le		
DE : Debri	S					

Inspector Comment

Appliances were dumped on the landside shoulder.

No Photos

LM Start	0.60	Rating **	A/W	Issue No.		8	
LM End	0.60	Issue Type +	Ma	Location *		WS	
Category	evee	GPS Latitude/Longitude					
Calegory				Start		End	
Item	Animal Co	ontrol		38.6039	83°	38.603983	0
iteiii				-121.5702	68 °	-121.570268	0
DWR ID	DWR STO	008 01 f 2018	3 8				

### Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

### Inspector Comment

Sac Yard fixed the collapsed beaver den on the waterside slope. This area should be monitored for future activity.

# Photo 1 of 1 : SP\_2019\_ST0008\_284\_8\_20190304\_00002.jpg



View of beaver den on the waterside toe road. Fall 2018.

LM Start	0.73	Rating **	М	Issue No.	11		
LM End	0.73	Issue Type +	Ma	Location *		WS	
Category	GPS La	atitud	le/Longitude				
Calegory	Category				Start		
Item	Encroach	ments		38.6034	58°	38.603458	•
пеш				-121.5724	90°	-121.572490	c
DWR ID DWR_ST0008_01_s _ 2019_11							
Comment Code							

DE : Debris

### Inspector Comment

Furniture was dumped on the waterside shoulder.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/30/2019 04/30/2019	Zach Jojola

LM Start	0.75	Rating **	A/W	Issue No.	12		
LM End	0.75	Issue Type +	Ма	Location *	CR		
Category	evee		GPS Lat	itud	le/Longitude		
Calegory	alegory					End	
Item		rface / Depres	ssions /	38.60333	7°	38.603337 °	
пеш	Rutting			-121.57291	2°	-121.572912 °	
DWR ID DWR_ST0008_01_s _ 2019_12							
	Comment Code						

C2: Repair depressions or ruts in the crown or slope.

### Inspector Comment

There is visible settlement on the crown on County Road 126. Recommend monitoring for further movement.

Photo 1 of 1 : SP\_2019\_ST0008\_284\_12\_20190430\_00014.jpg



View of settlement on crown. Spring 2019.

LM Start	0.87	Rating **	A/W	Issue No.	Issue No.		
LM End	0.87	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS La	titud	e/Longitude	
Calegory	ory			Start		End	
Item	Animal Co	ontrol		38.6028	71 °	38.602871	0
пеш				-121.57496	60°	-121.574960	0
DWR ID	DWR_ST0	008_01_f _ 2018	3_9				

### Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

### Inspector Comment

There possibly is a beaver den on the edge of the waterside berm. It is not within the levee prism. Recommend monitoring for activity.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/30/2019 04/30/2019	Zach Jojola

LM Start	1.09	Rating **	A/W	Issue No.		18	
LM End	1.09	Issue Type +	Ma	Location *			
Category	Supplemental				GPS Latitude/Longitude		
Calegory		Start		End			
Item	DWR UC	P LMA Respo	onsibility	38.60216	9°	38.602169°	
пеш				-121.57900	o°	-121.579000 °	
DWR ID	19076						

### Comment Code

### Inspector Comment

FS\_ID:44787 DS\_ID:19076 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: A concrete saddle found on slough/drainage. No pump was found on LS and no structure/pipe found on WS. FIELD\_STRUCT\_DESC: \*ABANDONED\* 36-inch corrugated metal drainage pipe through the levee, at an unknown depth. Grouted in place. Remains of concrete structure found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 122.1, August 1955, (RM 174)].

FS Date: 4/28/2015 2:44:05 PM

LM Start	1.09	Rating **	A/W	Issue No.	18 (cont)
LM End	1.09	Issue Type +	Ma	Location *	

# Photo 1 of 3: UCIP\_SP\_2019\_44787\_20605.jpg



Landside view: overview

### Photo 2 of 3: UCIP\_SP\_2019\_44787\_20604.jpg



Landside view: remaining of concrete structure

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/30/2019 04/30/2019	Zach Jojola

LM Start	1.09	Rating **	A/W	Issue No.		18 (cont)
LM End	1.09	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS Lat	itud	le/Longitude
Calegory				Start		End
Item	DWR UC	IP LMA Respo	nsibility	38.60216	9°	38.602169°
пеш				-121.57900	0°	-121.579000 °
DWR ID	19076					

### Comment Code

### Inspector Comment

FS\_ID:44787 DS\_ID:19076 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: A concrete saddle found on slough/drainage. No pump was found on LS and no structure/pipe found on WS.
FIELD\_STRUCT\_DESC: \*ABANDONED\* 36-inch corrugated metal drainage pipe through the levee, at an unknown depth. Grouted in place. Remains of concrete structure found on the landside (LS).
[Additional Reference(s): USACE Sacramento O&M Manual 122.1,

August 1955, (RM 174)]. FS Date: 4/28/2015 2:44:05 PM



Landside view: remaining of concrete structure on drainage/slough

LM Start	1.14	Rating **	М	Issue No.		13		
LM End	1.14	Issue Type +	Ma	Location *	CR			
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Encroach	ments		38.601930°		38.601930°		
item				-121.579807 °		-121.579807°		
DWR ID	DWR_ST0	008_01_s _ 201	9_13					
		Comn	nent Cod	le				
DE : Debris								
	Inspector Comment							

Appliances are blocking access to gate.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/30/2019 04/30/2019	Zach Jojola

LM Start	1.15	Rating **	М	Issue No.		17
LM End	1.72	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Vegetatio	n		38.6018	87°	38.599457 °
пеш				-121.5800	57°	-121.589895 °
DWR ID	DWR_ST0	008_01_s _ 201	9_17			
		Comn	nent Cod	le		
V1 : Contre	•	grass and wee	eds on th	e levee slo	pes	and
		Inspecto	or Comm	nent		

No Photos

LM Start	1.15	Rating **	М	Issue No.		16	
LM End	1.72	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.6018	87°	38.599462°	
пеш				-121.580057 ° -121.5898			
DWR ID	DWR_ST0	008_01_s _ 201	9_16				
		Comn	nent Cod	le			
V1 : Contre	•	grass and wee	ds on th	e levee slo <sub>l</sub>	oes a	and	
Inspector Comment							

No Photos

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/30/2019 04/30/2019	Zach Jojola

LM Start	1.43	Rating **	A/W	Issue No.	7		
LM End	1.59	Issue Type +	Ма	Location *		WS	
Category	Supplemental					le/Longitude	
Calegory				Start		End	
Item		ACE Erosion S	Survey,	38.60045	6°	38.599713 °	
пеш	DRAFT			-121.58488	3°	-121.587668 °	
DWR ID	WR ID DWR_ST0008_01_f _ 2018_7						
Comment Code							

Inspector Comment

2017 Site ID: SAP 1.4 R

Status: Critical

2017 Field Notes: New site, immediately upgraded to critical. Start of slump failure, deep cracks along levee crest, concern that a large slump failure will occur from the next heavy rain.

Site History:

DWR Inspector Comment: Did not observe significant damage on the waterside slope. Minor craking on the crown. Recommend monitoring.



View of the cracking on the crown. Fall 2018.

### LM Start 1.74 Rating \*1 Issue No. 15 Issue Type + 1.74 Location \* WS LM End GPS Latitude/Longitude Earthen Levee Category Erosion / Bank Caving 38.599546° 38 599546 Item -121.590235° -121.590235 DWR ID DWR\_ST0008\_01\_s \_ 2018\_15

### Comment Code

E1: Note and monitor erosion site.

### Inspector Comment

There is runoff erosion on the oversized levee section located on the waterside levee slope. Recommend monitoring.

### Photo 1 of 1: SP\_2019\_ST0008\_284\_15\_20190304\_00004.jpg



View of erosion on waterside slope. Spring 2017.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/30/2019 04/30/2019	Zach Jojola

LM Start	0.03	Rating **	С	Issue No.		2		
LM End	0.03	Issue Type +	Ма	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Category				Start		End		
Item	Animal Co	ontrol		38.6026	13 °	38.602613 °		
item				-121.5560	21 °	-121.556021 °		
DWR ID	DWR_ST0	008_02_s _ 201	6_2					
		Comn	nent Cod	le				
A3 : No roo compact o		le, but rodent rows.	burrows	visible; nee	ed to	backfill and		
Inspector Comment								

No Photos

LM Start	0.03	Rating **	М	Issue No.	3			
LM End	1.73	Issue Type +	Ma	Location *	LS			
Category	evee		GPS La	titud	e/Longitude			
Category				Start		End		
Item	Vegetatio	/egetation			ı3°	38.595012 °		
пеш				-121.55610	)8°	-121.585960 °		
DWR ID	DWR_ST0	008_02_s _ 201	9_3					
	Comment Code							
V1 : Control annual grass and weeds on the levee slopes and easements.								

Inspector Comment

No Photos

LM Start	0.54	Rating **	М	Issue No.		4	
LM End	1.13	Issue Type + Ma I		Location *		WS	
Category	Earthen L	Earthen Levee				e/Longitude	
Calegory			Start		End		
Item	Vegetatio	Vegetation			12°	38.597789	٥
пеш				-121.5649	16°	-121.575384	٥
DWR ID	DWR_ST0008_02_s _ 2019_4						

No Photos

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Comment Code

Location Rating LS : Land Side N/A : Not Applicable A : Acceptable
M : Minimally Acceptable
U : Unacceptable N: Not Inspected/Rated WS: Water Side C : Corrected CR : Crown A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

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# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/30/2019 04/30/2019	Zach Jojola

LM Start	1.26	Rating **	A/W	Issue No.	1		
LM End	1.79	Issue Type +	Ma	Location *			
Category	ental	GPS Latitude/Longitude					
Calegory			Start		End		
Item	2017 Stor	m Damage		38.59702	23°	38.594527°	
пеш				-121.57755	8°	-121.586638 °	
DWR ID DWR_ST0008_02_f _ 2017_1							
	Comment Code						

### Inspector Comment

Levee Evaluation Comments

Description: Site ID No:260

Site Designation:LMA-55 Repair Type: Erosion Rating:Area of Concern Field Date:6/5/2017

Notes: Minor wavewash on landside levee slope; no active erosion; no cross section taken, photo only. The erosion is not within the prism. Sac Yard will fix after vegetation gets burned. Fall 2018.

LM Start	1.26	Rating **	A/W	Issue No.	1 (cont)
LM End	1.79	Issue Type +	Ma	Location *	

Photo 1 of 4: SP\_2019\_ST0008\_285\_1\_20190304\_00001.jpg



View of the worst section of erosion, just past the gate near the end of the unit. Fall 2018.

### Photo 2 of 4: LEVAL\_SP\_2019\_260\_471.jpg



Photo from storm site evaluations.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/30/2019 04/30/2019	Zach Jojola

LM Start	1.26	Rating **	A/W	Issue No. 1 (cont)			
LM End	1.79	Issue Type +	Ma	Location *			
Category	ental	GPS La	tituc	le/Longitude			
Calegory				Start		End	
Itom	2017 Stor	m Damage		38.59702	23 °	38.594527°	
пеш	Item					-121.586638 °	
DWR ID DWR_ST0008_02_f _ 2017_1							
	Comment Code						

### Inspector Comment

Levee Evaluation Comments

Description: Site ID No:260

Site Designation:LMA-55 Repair Type: Erosion Rating:Area of Concern Field Date:6/5/2017

Notes: Minor wavewash on landside levee slope; no active erosion; no cross section taken, photo only. The erosion is not within the prism. Sac Yard will fix after vegetation gets burned. Fall 2018.

LM Start	1.26	Rating **	A/W	Issue No.	1 (cont)
LM End	1.79	Issue Type +	Ma	Location *	



Photo from storm site evaluations.

### Photo 4 of 4: LEVAL\_SP\_2019\_260\_475.jpg



Photo from storm site evaluations

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/30/2019 04/30/2019	Zach Jojola

LM Start	1.28	Rating **	М	Issue No.		6	
LM End	1.73	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.5971	56°	38.595012 °	
item		-121.578013 ° -121.5859					
DWR ID	DWR_ST0	008_02_s _ 201	9_6				
		Comn	nent Cod	le			
V1 : Contro	ol annual g	rass and wee	ds on th	e levee slop	oes a	and	
easements	easements.						
	Inspector Comment						

No Photos

LM Start	1.77	Rating **	М	Issue No.		7		
LM End	1.77	Issue Type +	Ma	Location *		CR		
Category	Earthen Levee			GPS Latitude/Longitude				
Calegory				Start End				
Item	Encroach	ments		38.5947	52°	38.594752	0	
item						-121.586558	0	
DWR ID DWR_ST0008_02_s _ 2019_7								

### Comment Code

MA: Material

### Inspector Comment

It appears that dirt was placed on the crown to block vehicle access at the end of the unit.

# Photo 1 of 1: SP\_2019\_ST0008\_285\_7\_20190430\_00010.jpg



View of material on the crown. Spring 2019.

LM Start	1.77	Rating **	A/W	Issue No.		5	
LM End	1.77	Issue Type +	Ma	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start Er			
Item	Encroach	hments 38.594		38.5947	43°	38.594743	•
пеш				-121.5865	56°	-121.586556	
DWR ID	DWR_ST0	008_02_s _ 201	6_5				
Comment Code							

PR: Prunings

### Inspector Comment

This is a seasonal pile but gets burned by the LMA each year.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

# **Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/30/2019 04/30/2019	Zach Jojola

LM Start	1.77	Rating **	A/W	Issue No.		8	
LM End	1.77	Issue Type +	Ма	Location *		WS	
Category	evee	GPS Latitude/Longitude					
Calegory			Start		End		
Item	Erosion / Bank Caving			38.594710°		38.594710°	
пеш	item				82 °	° -121.586582	
DWR ID DWR_ST0008_02_s _ 2019_8							
Comment Code							
E1 : Note and monitor erosion site.							
Inspector Comment							
This is a runoff location, but it is not within the levee prism. Recommend monitoring.							

Photo 1 of 1 : SP\_2019\_ST0008\_285\_8\_20190304\_00009.jpg

View of erosion on waterside levee slope. Spring 2017.